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1 KDB: a multi-threaded debugger for multi-threaded applications

Peter A. Buhr, Martin Karsten, Jun Shih

January 1996 Proceedings of the SIGMETRICS symposium on Parallel and distributed tools
Publisher: ACM Press

Full text available: pdf(991.10 Additional Information: full citation, references, citings, index terms

2 Session 24: software tools: A portable debugger for parallel and distributed programs

Doreen Cheng, Robert Hood

November 1994 Proceedings of the 1994 ACM/IEEE conference on Supercomputing Publisher: ACM Press

Full text available: pdf(996.90 KB)

Additional Information: full citation, abstract, references, citings

We describe the design and implementation of a portable debugger for parallel and distributed programs. The design incorporates a client-server model in order to isolate non-portable debugger code from the user interface. The precise definition of a protocol for client-server interaction facilitates a high degree of client portability. Replication of server components permits the implementation of a debugger for distributed computations. Portability across message passing implementations is achie ...

3 The Mantis parallel debugger

Steven S. Lumetta, David E. Culler

January 1996 Proceedings of the SIGMETRICS symposium on Parallel and distributed tools
Publisher: ACM Press

Full text available: pdf(2.19

Additional Information: full citation, references, index terms

4 Efficient debugging primitives for multiprocessors

Z. Aral, I. Gerther, G. Schaffer

April 1989 ACM SIGARCH Computer Architecture News, Proceedings of the third international conference on Architectural support for programming languages and operating systems ASPLOS-III, Volume 17 Issue 2

Publisher: ACM Press

Full text available: pdf(792.54 Additional Information: full citation, abstract, references, KB)

KB) citings, index terms

Existing kernel-level debugging primitives are inappropriate for instrumenting complex sequential or parallel programs. These functions incur a heavy overhead in their use of system calls and process switches. Context switches are used to alternately invoke the debugger and the target programs. System calls are used to communicate data between the target and debugger. None of this is necessary in shared-memory multiprocessors. Multiple processors concurrently run both the debugge ...

5 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: pdf(4.21 Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

6 Graphical animation of parallel Fortran programs

Sue Utter-Honig, Cherri M. Pancake

August 1991 Proceedings of the 1991 ACM/IEEE conference on Supercomputing

Publisher: ACM Press

Full text available: pdf(1.35

Additional Information: full citation, references, citings, index

MB) terms

7 Summary of the sigmetrics symposium on parallel and distributed processing

Jeffrey K. Hillingsworth, Barton P. Miller

March 1999 ACM SIGMETRICS Performance Evaluation Review, Volume 26 Issue 4

Publisher: ACM Press

Full text available: pdf(1.17

Additional Information: <u>full citation</u>, <u>index terms</u>

8 Experiences with building distributed debuggers
Michael S. Meier, Kevan L. Miller, Donald P. Pazel, Josyula R. Rao, James R. Russell

January 1996 Proceedings of the SIGMETRICS symposium on Parallel and distributed tools

Publisher: ACM Press

Full text available: pdf(1.34 MB)

Additional Information: full citation, references, index terms

9 Process migration

September 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 3

Publisher: ACM Press

MB)

Full text available: pdf(1.24 Additional Information: full citation, abstract, references, citings, index terms, review

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

10 Engineering VAX Ada for a multi-language programming environment

Charles Z Mitchell

January 1987 ACM SIGPLAN Notices, Proceedings of the second ACM SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments SDE 2, Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(1.20 Additional Information: full citation, abstract, references, index

DIGITAL's VAXTM Adar is a validated, production-quality implementation of the full Ada language that is well-integrated into the VMSTM operating system environment on VAX systems. The programming support environment consists of an Ada compiler, an Ada program library manager, and a multi-language programming environment including a variety of tools which all work together. The Ada compiler has many features wh ...

11 Summary of ACM/ONR workshop on parallel and distributed debugging

October 1993 ACM SIGOPS Operating Systems Review, Volume 27 Issue 4

Publisher: ACM Press

Full text available: pdf(1.34

MB)

Additional Information: full citation, index terms

12 Debugging standard ML without reverse engineering

Andrew P. Tolmach, Andrew W. Appel

May 1990 Proceedings of the 1990 ACM conference on LISP and functional programming **Publisher:** ACM Press

Full text available: pdf(1.29 Additional Information: full citation, abstract, references, citings, index terms

We have built a novel and efficient replay debugger for our Standard ML compiler. Debugging facilities are provided by instrumenting the user's source code; this approach, made feasible by ML's safety property, is machine-independent and back-end independent. Replay is practical because ML is normally used functionally, and our compiler uses continuation-passing style; thus most of the program's state can be checkpointed quickly and compactly using call-with-current-continuation. Together, ...

13 Debugging concurrent programs

Charles E. McDowell, David P. Helmbold

December 1989 ACM Computing Surveys (CSUR), Volume 21 Issue 4

Publisher: ACM Press

Full text available: pdf(2.86 Additional Information: full citation, abstract, references, citings, index terms, review

The main problems associated with debugging concurrent programs are increased complexity, the "probe effect," nonrepeatability, and the lack of a synchronized global clock. The probe effect refers to the fact that any attempt to observe the behavior of a distributed system may change the behavior of that system. For some parallel programs, different executions with the same data will result in different results even without any attempt to observe the behavior. Even when the behavior can be ...

14 Program development for a systolic array

Bernd Bruegge

January 1988 ACM SIGPLAN Notices, Proceedings of the ACM/SIGPLAN conference on Parallel programming: experience with applications, languages and systems PPEALS '88, Volume 23 Issue 9

Publisher: ACM Press

Full text available: pdf(1.27 Additional Information: full citation, abstract, references, citings, index terms

The primary objective of the Warp programming environment (WPE) is to simplify the use of Warp, a high-performance programmable linear systolic array connected to a general-purpose workstation host. WPE permits the development of distributed applications that access Warp either locally from the host or remotely from a large number of workstations connected to a local area network. Its audience includes the user who calls routines from a library, the programmer who develops new algorithms fo ...

15 Event and state-based debugging in TAU: a prototype

Sameer Shende, Janice Cuny, Lars Hansen, Joydip Kundu, Stephen McLaughry, Odile Wolf January 1996 Proceedings of the SIGMETRICS symposium on Parallel and distributed tools Publisher: ACM Press

Full text available: pdf(1.49 MB)

Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

16 HDB-a high level debugging

D. Y. Cheng

August 1989 Proceedings of the 1989 ACM/IEEE conference on Supercomputing



Publisher: ACM Press

Full text available: pdf(835.50 Additional Information: full citation, abstract, references, index

This paper presents a new high level debugging tool, HDB, for debugging large scientific programs running on a moderate number of processors. The unique feature of HDB is that checksums are used to compress arrays and groups of variables without losing meaningful information for debugging. Using checksums makes it possible to use invariance assertions to detect misbehavior of a program at a place near the source of the error. Tracing the checksums allows th ...

17 Fast breakpoints: design and implementation

Peter B. Kessler

June 1990 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1990 conference on Programming language design and implementation PLDI '90, Volume 25 Issue 6

Publisher: ACM Press

Full text available: pdf(855.02 Additional Information: full citation, abstract, references, citings, index terms KB)

We have designed and implemented a fast breakpoint facility. Breakpoints are usually thought of as a feature of an interactive debugger, in which case the breakpoints need not be particularly fast. In our environment breakpoints are often used for non-interactive information gathering; for example, procedure call count and statement execution count profiling [Swinehart, et al.]. When used non-interactively, breakpoints should be as fast as possible, so as to perturb the execution of the pro ...

18 Automatic detection of nondeterminacy in parallel programs

Perry A. Emrath, David A. Padua

November 1988 ACM SIGPLAN Notices, Proceedings of the 1988 ACM SIGPLAN and SIGOPS workshop on Parallel and distributed debugging PADD '88, Volume

24 Issue 1

Publisher: ACM Press

Full text available: pdf(1.02

Additional Information: full citation, references, citings, index

MB) terms

19 Summary of ACM/ONR workshop on parallel and distributed debugging

January 1992 ACM SIGOPS Operating Systems Review, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(1.31 MB)

Additional Information: full citation, citings, index terms

20 Trace-driven memory simulation: a survey

Richard A. Uhlig, Trevor N. Mudge

June 1997 ACM Computing Surveys (CSUR), Volume 29 Issue 2

Publisher: ACM Press

Full text available: pdf(636.11 Additional Information: full citation, abstract, references, citings, index terms, review

As the gap between processor and memory speeds continues to widen, methods for evaluating memory system designs before they are implemented in hardware are becoming increasingly important. One such method, trace-driven memory simulation, has been the subject of intense interest among researchers and has, as a result, enjoyed rapid development and substantial improvements during the past decade. This article surveys and analyzes these developments by establishing criteria for evaluating trac ...

Keywords: TLBs, caches, memory management, memory simulation, trace-driven simulation

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[PS] A Graphical Development and Debugging Environment for Parallel Programs

P.Kacsuk, JC Cunha, G.Dozsa, J.Lourenco, T.Fadgyas ... - Parallel Computing, 1997 - www-asc.di.fct.unl.pt

... Makefile Code C Source file ... Besides formal methods to assure the quality of parallel programs, systematic ... system (eg all the client tools know that breakpoint ...

Cited by 46 - View as HTML - Web Search - lpds.sztaki.lm - portal.acm.org - all 6 versions »

An Integrated Approach to Parallel Program Debugging and Performance Analysis of Large-Scal ... RJ Fowler, TJ LeBlanc, JM Mellor-Crummey - Workshop on Parallel and Distributed Debugging, 1988

- portal.acm.org

... in a very pow- erful base for parallel program analysis ... used to replay an execution; the source code is used ... a program replay tool to set a breakpoint at that ... Cited by 29 - Web Search - portal acm org

[PS] Paralex: an environment for parallel programming in distributed systems

O Babaoglu, L Alvisi, A Amoroso, R Davoli, LA ... - ICS, 1992 - funet.fi

... would result in communication costs osetting all benets derived from parallel computation ... editor invoked on the le \quick.c" containing the source code for the ...

Cited by 49 - View as HTML - Web Search - funet fi - portal acm org - all 4 versions » - Library Search

[PS] Interactive debugging and performance analysis of massively parallel applications

R Wismueller, M Oberhuber, J Krammer, O Hansen - Parallel Computing, 1996 - wwwbode.informatik.tu-muenchen.de

... So for data parallel programs a single window can ... and additional descriptions inserted into the source code (see Fig ... line, a variable name or a breakpoint marker ...

Cited by 26 - View as HTML - Web Search - wwwbode in turn de - wwwbode es turn edu - portal acm org - all 9 versions »

Breakpoints and breakpoint detection in source-level emulation

GH Koch, W Rosenstiel, U Kebschull - ACM Transactions on Design Automation of Electronic Systems, 1998 - portal.acm.org

... the while-condition and the if-condition of the VHDL source are evaluated in parallel. ... Breakpoints and Breakpoint Detection in Source-Level Emulation ...

Cited by 9 - Web Search - ieeexplore ieee org - fzi de - sigda org - all 8 versions »

A visualization-based environment for top-down debugging of parallel programs

JL Sharnowski, BHC Cheng - IPPS, 1995 - doi.ieeecs.org

... name IS selected from the source code listing, then ... Proceedings of the 9th International Parallel Processing Symposium ... a space-time diagram t breakpoint state ...

Cited by 6 - Web Search - doi.ieeecomputersociety.org - ieeexplore.ieee.org - portal.acm.org - all 5 versions »

[PS] Mantis parallel debugger

SS Lumetta, DE Culler - ... '96: SIGMETRICS Symposium on Parallel and Distributed Tools, 1996 -

crhc.uiuc.edu

... In the ab- sence of source information, Mantis can disassemble the ... We next examine a handful of parallel debuggers ... The user has just set a breakpoint at line 99 ... Cited by 14 - View as HTML - Web Search - HTTP CS Berkeley EDU - cs berkeley edu portal acm org - all 8 versions »

An API for Runtime Code Patching

B Buck, JK Hollingsworth - Sage, 2000 - ingentaconnect.com

... module refers to a single source file in ... of critical path analysis for parallel programs running ... Table 1 Conditional Breakpoint Performance Breakpoints Dyninst ... Cited by 145 - Web Search - prism avso fr - dyninst org - le-hacker org - all 11 versions »

[PS] Language-based Parallel Program Interaction: the Breezy Approach

D Brown, A Malony, B Mohr - Proceedings of the International Conference on High ..., 1995 cs.uoregon.edu

... as current breakpoint location in source code and the ... as type descriptions of the parallel data structures ... that can be called, the Breakpoint Executive module ... Cited by 7 - View as HTML - Web Search - cs uoregon edu

A Visual Approach for Developing, Understanding and Analyzing Parallel Programs G Wirtz - VL, 1993 - ieeexplore.ieee.org

... prior to the gener- ation of compilable and executable source-code. ... expected and real behaviour of a parallel program ... the mode to stepping at a breakpoint is a ... Cited by 14 - Web Search - ieeexplore ieee org

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[PS] The ParaScope parallel programming environment

KD Cooper, MW Hall, RT Hood, K Kennedy, KS ... - Proceedings of the IEEE, 1993 - cs.utexas.edu ... Thus, the code and some of the annotations are a ... we plan to build a prototype source-to-source parallelizer for ... provide an initial parallel program [16, 17, 18 ... Cited by 61 - View as HTML - Web Search - cs utexas edu - jeeexplore jeee org - csa com

Evicted variables and the interaction of global register allocation and symbolic debugging

AR Adl-Tabatabai, T Gross - POPL, 1993 - portal.acm.org

... Office, under the title "Research on Parallel Computing: ARPA ... uses them to detect whether a breakpoint lies within ... r has been assigned to source variables x ... Cited by 19 - Web Search - portal acm org - Library Search

Debugging of behavioral VHDL specifications by source level emulation

G Koch, U Kebschull, W Rosenstiel - The 1995 European Design Automation Conference with EURO-..., 1995 - ieeexplore.ieee.org

... of SLE When we speak of source level debugging ... by the HLS are exchanged with parallel loadable shift ... output of this gate indicates that a breakpoint is reached ... Cited by 11 - Web Search - sigda org - acm org - fzi de - all 8 versions »

FULLDOC: A Full Reporting Debugger for Optimized Code

C Jaramillo, R Gupta, ML Soffa - SAS, 2000 - springerlink.com

... variables that a user expects to see at a breakpoint in the source code, even though ... to obtain part of the execution path of the optimized code, which is ...

Cited by 9 - Web Search - cs.pitt.edu - cs.arizona.edu - portal.acm.org - all 5 versions »

A Debugging and Testing Tool for Supporting Software Evolution

D Abramson, R Sosic - Automated Software Engineering, 1996 - springerlink.com ... this file is used as the source of variable ... allow for interprocessor communication in a parallel form of ... Assertions make use of the breakpoint capability which ... Cited by 15 - Web Search - ingentaconnect.com - csse monash edu au

Comparison Checking: An Approach to Avoid Debugging of Optimized Code

C Jaramillo, R Gupta, ML Soffa - ESEC / SIGSOFT FSE, 1999 - springerlink.com ... 8. When the unoptimized program execution reaches the breakpoint, the user ... when optimizations are applied at the source, intermediate, or target code level. ...

Cited by 12 - Web Search - cs.pitt.edu - www-users.cs.umn.edu - cs.arizona.edu - all 8 versions »

System Validation by Source Level Emulation of Behavioral VHDL Specifications

G Koch, U Kebschull, W Rosenstiel - Rapid System Prototyping, 1995. Proceedings., Sixth IEEE ..., 1995 - ieeexplore.ieee.org

... of SLE When we speak of source level debugging ... by the HLS are exchanged with parallel loadable shift ... output of this gate indicates that a breakpoint is reached ...

Web Search - fzi de - ieeexplore ieee org

The p2d2 Project: Building a Portable Distributed Debugger

R Hood, I MRJ, NA Simulation - Proc. of SPDT, 1996 - portal.acm.org ... and built p2d2, a portable parallel/distributed debugger. ... as trap instructions used in breakpoint implementation, q ... for this approach: gdb's source is freely ... Cited by 57 - Web Search - nas.nasa.gov - nas.nasa.gov - science.nas.nasa.gov - all 5 versions »

[PS] Debugging Optimized Code via Tailoring

L Pollock, M Bivens, M Soffa - Proceedings of the 1994 International Symposium on Software ..., 1994 - cis.udel.edu

... the standard debugging commands such as **breakpoint** inser ... Zellweger [24], is a **source** level debugger that ... and reporting procedure traceback on **code** that includes ... Cited by 2 - View as HTML - Web Search - cis.udel.edu - udel.edu - portal.acm org - all 5 versions »

Detection and Recovery of Endangered Variables Caused by Instruction Scheduling AR Adl-Tabatabai, T Gross - PLDI, 1993 - portal acm org ... under the title "Research on Parallel Computing," ARPA ... variables at breakpoints in the code of Figure 1 ... to the corre-sponding source breakpoint, then V is ... Cited by 23 - Web Search - cs.berkeley.edu - portal.acm.org

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Scholar Results 1 - 10 of about 198 for insert breakpoint into source code + parallel. (0.07 seconds)

[PS] Detours: Binary interception of Win32 functions

G Hunt, D Brubacher - Proceedings of the 3rd USENIX Windows NT Symposium, 1999 - usenix org ... branch or jump is inserted into the desired ... Detailed binary rewriters can insert instrumentation around any ... smaller than the penalty for breakpoint trapping. ... Cited by 90 - View as HTML - Web Search - madchat.org - research microsoft com research microsoft com - all 9 versions »

An API for Runtime Code Patching

B Buck, JK Hollingsworth - Sage, 2000 - ingentaconnect.com

... a module refers to a single source file in ... The code to generate and insert this snippet is shown in ... It compiles the condition for the breakpoint into a Dyninst ... Cited by 145 - Web Search - prism uvsq fr - dyninst org - le-hacker org - all 11 versions »

[PS] Paralex: an environment for parallel programming in distributed systems

O Babaoglu, L Alvisi, A Amoroso, R Davoli, LA ... - ICS, 1992 - funet.fi

... It divides the input vector into four segments that ... costs osetting all benets derived from parallel computation ... le \quick.c" containing the source code for the ... Cited by 49 - View as HTML - Web Search - funet fi - portal acm org - all 4 versions » - Library Search

A visualization-based environment for top-down debugging of parallel programs

JL Sharnowski, BHC Cheng - IPPS, 1995 - doi.ieeecs.org

... point, the programmer may select, the **Insert** button. ... option is provided for eliminating an inserted breakpoint. ... gram states may be categorized into four types. ... Cited by 6 - Web Search - doi.ieeecomputersociety.org - ieeexplore.ieee.org - portal.acm.org - all 5 versions »

[PS] Bisection Debugging

T Gross, P Checksum - AADEBUG, 1997 - ida.liu.se

... debugging requires the ability to insert arbitrary breakpoints ... snapshot of the program state each each breakpoint. ... values to variables introduced newly into P ... Cited by 3 - View as HTML - Web Search - ep liu se - ida liu se

VASE: the visualization and application steering environment

D Jablonowski, JD Brunner, B Bliss, RB Haber - SC, 1993 - ieeexplore.ieee.org

... Output statements are inserted into the application source code, and during execution the program writes programmer-selected data into output files. ... Cited by 69 - Web Search - ieeexplore ieee org

The p2d2 Project: Building a Portable Distributed Debugger

R Hood, I MRJ, NA Simulation - Proc. of SPDT, 1996 - portal acm.org

... such as trap instructions used in **breakpoint** implementation, q ... reasons for this approach: gdb's source is freely ... on a debugger server object into gdb commands ...

Cited by 57 - Web Search - nas.nasa.gov - nas.nasa.gov - science nas.nasa.gov - all 5 versions »

The "Annai" environment for portable distributed parallel programming

C Clemencon, A Endo, J Fritscher, A Mueller, R ... - HICSS (2), 1995 - ieeexplore.ieee.org ... PMA and PDT to show features or source regions of ... in- spectors and executors for critical code sections ... We integrated this mechanism into an HPF compiler built ... Cited by 8 - Web Search - ieeexplore ieee.org - portal.acm.org - portal acm org

Debugging multithreaded programs with MPD

MK Ponamgi, W Hseush, GE Kaiser - IEEE Software. 1991 - ieeexplore.ieee.org ... event is defined by a breakpoint inserted into the program ... 0x1 23:fik Dpmo.c, line 37 Breakpoint 11 OAS6 ... tored, MPD logs which line in the source code sent the ... Cited by 11 - Web Search - doi jeeecomputersociety.org - psl.cs.columbia.edu - portal.acm.org - all 14 versions.»

Object view: a software design architecture for breakpoint-based program visualization CD Hundhausen, AD Malony - 1993 - moab.eecs.wsu.edu ... 8 Insert Figure 2 here ... of lines, while go tells the program to execute to the next breakpoint. ... Requirement 3: Minimal intrusions into the original source code. ... Cited by 1 - View as HTML - Web Search - lilt ics hawaii.edu - eecs wsu.edu - Library Search

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L5	5	717/129.ccls. and (multithread\$3 or "multi-threaded") and (breakpoint or "break point" or instrument\$5) and insert\$3 near3 (breakpoint or "break point")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 10:50
L6	5	717/129.ccls. and (multithread\$3 or "multi-threaded") and (breakpoint or "break point" or instrument\$5) and insert\$3 near3 (breakpoint or "break point") and (determin\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 11:51
L7.	4	("6681384" "6378125").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 11:03
L8	1	717/129.ccls. and (multithread\$3 or "multi-threaded") and (breakpoint or "break point" or instrument\$5) near3 "source code"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 11:52
L9	321	717/130.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 13:00

L10	19	717/130.ccls. and multithread\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 13:10
L11	2	"6668317".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 13:00
L12	7	717/130.ccls. and multithread\$3 and "source code"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 13:10
L13	1	717/130.ccls. and multithread\$3 and "source code" and (breakpoint\$3 or (break adj point\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 13:11